

CESSNA 172 NORMAL OPERATING PROCEDURES - FLIGHT SIMULATOR

ENGINE START	
Brakes	SET
Electrical Equip.	OFF
Avionics Master	OFF
Fuel Selector Valve	BOTH
Circuit Breakers	IN
Throttle	OPEN 1/4"
Mixture	RICH
Prop Area	CLEAR
Master Switch	ON
Beacon	ON
Aux Fuel Pump	ON
Ignition	START
Throttle	1000RPM
Oil Pressure	CHECK
Ammeter	NORMAL CHARGE
Vacuum	GREEN
Aux Fuel Pump	OFF
Avionics Master	ON
Flight Instruments	CHECKED/SET
Avionics	SET
Flaps	RETRACT
Brakes	RELEASE/TEST

BEFORE TAKEOFF	
Parking Brake	SET
Flight Controls	FREE/CORRECT
Flight Instruments	CHECK/SET
Fuel Quantity	CHECK
Mixture	RICH
Fuel Selector Valve	BOTH
Elevator Trim	SET FOR T/O
Throttle	1700RPM
Magnetos	CHECK
Suction Gauge	CHECK
Engine Instruments	CHECK
Ammeter	CHECK
Annunciator Panel	CHECK
Throttle	1000RPM
Strobe Lights	ON AS REQ
Lights	AS REQUIRED
Radios/Avionics	SET
Wing Flaps	SET FOR T/O
Transponder	ALT

TAKEOFF	
Wing Flaps	SET 0°-10°
Mixture	RICH
Throttle	FULL
Airspeed	ALIVE
Oil Temp/Pressure	GREEN
Elevator Control	ROTATE 55KTS
Climb	70-80KTS

CLIMB	
Throttle	FULL
Mixture	AS REQ ABV 3000
Flaps	UP

CRUISE	
Power	SET
Mixture	LEAN
Landing Light	OFF

DESCENT	
Fuel Selector	BOTH
Power	AS DESIRED
Mixture	SLOWLY RICH
Lights	ON
Avionics/Flight Instruments	SET

BEFORE LANDING	
Fuel Selector	BOTH
Mixture	RICH
Lights	AS REQUIRED

GO AROUND	
Power	FULL
Wing Flaps	RETRACT TO 20°
Wing Flaps	RETRACT - 60KTS

LANDING	
Downwind	FLAPS 10°/60KTS
Base	FLAPS 20°/56KTS
Final	FULL FLAPS/52KTS

AFTER LANDING	
Wing Flaps	RETRACT
Lights	AS REQUIRED
Mixture	AS REQUIRED
Elevator Trim	TAKEOFF
Transponder	SBY

SECURING AIRCRAFT	
Parking Brake	SET
Avionics	OFF
Mixture	IDLE CUTOFF
Ignition Switch	OFF
Lights	OFF (BEACON ON)
Master Switch	OFF
Fuel Selector Valve	LEFT OR RIGHT
Flight Plan	CLOSE

REFERENCE	
Va (2550lbs)	105KTS
Va (2200lbs)	98KTS
Va (1900lbs)	90KTS
Vno (Max Structural Cruise)	129KTS
Vne (Never Exceed)	163KTS
Vs1 (Stall - Clean Config)	48KTS
Vso (Stall - Landing Config)	40KTS
Vx (Best Angle of Climb)	62KTS
Vy (Best Rate of Climb)	74KTS
BEST GLIDE SPEED	65KTS

CLAYVIATION

This checklist is intended to be used with a flight simulator as an aid to the flight simulator experience. Do not use this checklist in a real aircraft.

CESSNA 172 EMERGENCY OPERATING PROCEDURES - FLIGHT SIMULATOR

ENGINE FAILURE DURING TAKEOFF ROLL	
Throttle	IDLE
Brakes	APPLY
Wing Flaps	RETRACT
Mixture	IDLE CUTOFF
Ignition	OFF
Master Switch	OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF	
Airspeed	65KTS
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Fuel Shutoff Valve	OFF (PULL OUT)
Ignition	OFF
Wing Flaps	AS REQUIRED
Master Switch	OFF
Cabin Door	UNLATCH
Land	STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT	
Airspeed	65KTS
Fuel Shutoff Valve	IN (PUSH IN)
Fuel Selector Valve	BOTH
Primer	IN/LOCKED
Aux Fuel Pump	ON
Mixture	RICH
Ignition	BOTH/START

FORCED LANDING WITHOUT ENGINE POWER	
Airspeed	68KTS
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Fuel Shutoff Valve	OFF (PULL OUT)
Ignition	OFF
Wing Flaps	30/ AS REQUIRED
Master Switch	OFF (ON FINAL)
Cabin Door	UNLATCH

DITCHING	
Radio	MAYDAY 121.5
Announce Location/Intentions	COMPLETE
Squawk	7700
Heavy Objects	SECURE
Seatbelts	SECURE
Wing Flaps	20°-30°
Approach	65KTS
If High Winds & Heavy Seas	INTO THE WIND
If Light Winds & Heavy Swells	PARALLEL SWELLS
Cabin Door	UNLATCH
ELT	ACTIVATE
Face	CUSHION
Touchdown	LEVEL ATTITUDE

ENGINE FIRE DURING START ON GROUND	
Cranking	CONTINUE
Flames Sucked Through	VERIFY
~IF ENGINE STARTS~	
Throttle	1800RPM (2 MIN)
Brakes	SET
Avionics	OFF
Electrical Equip.	OFF
Mixture	IDLE CUTOFF
Ignition Switch	OFF
Master Switch	OFF
Fuel Selector Valve	OFF
~IF ENGINE FAILS TO START~	
Throttle	FULL OPEN
Mixture	IDLE CUTOFF
Cranking	CONTINUE
Fuel Shutoff Valve	OFF (PULL OUT)
Aux Fuel Pump	OFF
Master Switch	OFF
Ignition Switch	OFF

ENGINE FIRE DURING FLIGHT	
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Fuel Shutoff Valve	OFF (PULL OUT)
Aux Fuel Pump	OFF
Master Switch	OFF
Cabin Heat/Air	OFF
Overhead Vents	OPEN
Airspeed	INCREASE
Forced Landing	EXECUTE

CABIN FIRE	
Master Switch	OFF
Vents/Cabin Heat/Air	CLOSED/OFF
Fire Extinguisher	ACTIVATE
Vents/Cabin Heat/Air	OPEN/ON
Forced Landing	EXECUTE

AMMETER SHOWS EXCESSIVE CHARGE	
Alternator	OFF
Nonessential Electrical Equip	OFF
Land	ASAP

LOW VOLTAGE INDICATION (VOLTS) ON ANNUNCIATOR	
Avionics Master Switch	OFF
Alternator Circuit Breaker	CHECK IN
Master Switch	OFF
Master Switch	ON
Low Voltage Indication	CHECK OFF
Avionics Master Switch	ON
~IF INDICATION CONTINUES~	
Alternator	OFF
Nonessential Electrical Equip	OFF
Forced Landing	EXECUTE